

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Smith et al.

Atty. Docket No.: PST-10703/36

Serial No.: 10/791,497

Group Art Unit: 3744

Filed: March 2, 2004

Examiner:

For:

THERMOACOUSTIC DEVICE

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT WITHIN THREE MONTHS OF FILING OR BEFORE MAILING OF FIRST OFFICE ACTION (37 CFR 1.97(b))

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 CFR

1.97(b).

Date: September 10, 2004

Douglas L. Wathen (Reg. No. 41,369)

GIFFORD, KRASS et al

280 N. Old Woodward Ave., Ste 400

Birmingham, MI 48009

Tel. No.: 734/913-9300

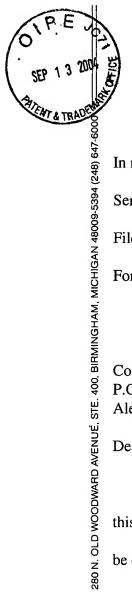
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CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date September 10, 2004

Ann K. Andrusiak



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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, P.C.

In compliance with the duty of disclosure under 37 C.F.R. §1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. §1.97(b), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possible material information as defined in 37 C.F.R. §1.56(a) exists.

submitted.

Douglas L. Wathen Reg. No.41,369

Date: September 10, 2004

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		2,549	9,464	4/1951	Hartley					
		2,836	6,033	5/1958	Marrison					
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		EP06	678715 A1	4/1994	Europe					
		GB2	237866	10/1990	Great Bri	tain				
		WOO	02/087279 A2	10/2002						
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			OTHER DOCUME	,	-	, Title, Date, Pertinent		:.)		
			Garrett, Steven, ''Therm	oAcoustic Life S	ciences Re	frigerator," Oct. 30, 1991	l, pp 4-43.		· 	
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· E			Ceperley, Peter H., "A p pp. 1508-1513.	istoniess Stirling	engine - T	The traveling wave heat en	igine,'' J. Ac	oust. Soc. Am, 6	6 (55), Nov	7. 1979,
EXAMINER			DATE CONSIDERED							
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	3,548,589	12/1970	Cooke-Y	arborough	60	24		
	3,604,821	9/1971	Martini o	Martini et al.		379		
	3,991,585	11/1976	Mulder	Mulder		6		
	4,036,018	7/1977	Beale	Beale				
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	Gedeon, David, ''DC O Press, NY, 1997, pp. 3	3as Flows in Stirli 85-392	ing and Pul	lse Tube Cryocoolers,"	Cryocoolers 9, E	dited by R.G.	Ross, Jr., P	lenum
	Wakelane, Ray Scott, 2000, pp. 827-832.	"Use of Electrody	namic Driv	vers in Thermoacoustic	Refrigerators," J	J. Acoust. Soc.	Am. 107(2)), Feb.
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	RE29,518	1/1978	Franklin		60	520			
	4,114,380	9/1978	Ceperley						
	RE30,176	12/1979	Beale		60	520			
	4,355,517	10/1982	Ceperley						
	4,398,398	8/1983	Wheatley	et al.					
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	Swift, G.W., Ward, W.C 10, No. 4, Oct Dec. 199	C., ''Simple Harn 96, pp. 652-662.	nonic Anal	ysis of Regenerators," Jou	rnal of Theri	mophysics and	Heat Trans	fer, Vol.	
	Garrett, S., Perkins, D., Physics Dept Code PH	Gopinath, A., ''' I/Gx, Naval Post	ThermoAc graduate S	oustic Refrigerator Heat E School, Monterey, CA, pp. 2	xchangers: 1 375-379.	Design, Analysi	s and Fabri	ication,''	
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	4,489,553	12/1984	Wheatley	et al.		1		
	4,490,983	1/1985	Gifford et	t al.		 		
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				l Thermoacoustic Engine,'' nos, NM				
	Swift, G., "Analysis and 1551-1563	d Performance of	a Large T	`hermoacoustic Engine,'' J.	Acoust. Soc.	Am. 92(3), Sep	t. 1992, pp	•
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	4,722,201	2/1988	Hofler et	al.					
	4,858,441	8/1989	Wheatley	et al.					
	4,858,717	8/1989	Trinh et a	al.					
	4,953,366	9/1990	Swift et a	1.					
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	Swift, G., "Thermoac	oustic Engines and	d Refrigera	tors," Physics Today, J	Jul. 1995, pp. 22	-28			
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	Swift, G., "Thermoac	oustic Engines," J	ournal of A	Acoustical Society of An	nerica 84(4), Ju	. 1988, pp. 1145	-1180		
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	5,165,243	11/1992	Bennett				<u> </u>		
	5,174,130	12/1992	Lucas						
	5,269,147	12/1993	Ishizaki	et al.			·		
	5,295,355	3/1994	Zhou et				ļ		
	5,303,555	4/1994	Chrysler						
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		Hofler, T., "Theri , Oct Dec. 1993	moacoustic 3, pp. 595-5	c Refrigerator for Space A 599	Applications," Jo	ournal of Ther			
	Backhaus S., Swift, G., 335-338	, ''A Thermoacou	istic Stirlin	ng Heat Engine," Nature,	Vol. 399, May 2	7, 1999, www.	. nature.com	m, pp.	
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	5,319,938	6/1994	Lucas					
	5,339,640	8/1994	Reinke					
	5,357,757	10/1994	Lucas					
	5,369,625	11/1994	Gabrielso	n	367	140		
	5,389,844	2/1995	Yarr et al	l.				
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	Garrett, S., "Revinven	nting the Engine,"	Nature, Vo	ol, 399, May 27, 1999, v	www.nature.com,	рр. 303-305		
	Backhaus, S., Swift, G Alamos National Labo	., "New Varieties oratory, Los Alamo	of Thermoa os, NM, Jul	acoustic Engines," Con l. 2002, pp. 1-8	densed Matter a	nd Thermal Ph	iysics Grou	p, Los
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	5,456,082	10/1995	Keolian e	t al.				
	5,502,968	4/1996	Beale					
	5,515,684	5/1996	Lucas et a	al.				
	5,647,216	7/1997	Garrett					
	5,673,561	10/1997	Moss					
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	3148-3166	, "A Thermoacous	suc-Suran	g Heat Engine: Detailed	Study," J. Aco	ust. Soc. Am. I	07(6), Jun.	2000, pp.
	Backhaus S., Swift, G., IECEC '01, 36th Inters	"Fabrication and ociety Energy Co	Use of Pan nversion E	rallel Plate Regenerator ngineering Conference,	s in Thermoaco July 29 - Aug.	oustic Engines,' 2, 2001, Savani	Proceeding ah, GA, pp	gs of . 1-5
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	5,813,234	9/1998	Wighard				ļ	
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	5,901,556	5/1999	Hofler					
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	Swift, G., Gardner, D., 105(2), Pt. 1, Feb. 1999	Backhaus, S., ''A , pp. 711-724	coustic Re	covery of Lost Power in P	ulse Tube Ref	rigerators,'' J.	Acoust. So	c, Am.
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